



Minimum Error of Closure 1 in 200'

Source of Elevation Int Flint Run Road & U.S. Route 50. 930'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: [Signature]
Squares: N S E W

Map No.

Company Ramco Oil & Gas Corp.
 Address P.O. Box 99, Salem, W. V.
 Farm H. B. Davis
 Tract Acres 111.68 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 927'
 Quadrangle Centerpoint SC
 County Doddridge District Grant
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date April 28, 1973 Scale 1" = 400' = 660'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. Dodd-1730

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-017



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary _____ Oil _____
Cable Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

34-3^v 8-23
②
Quadrangle Centerpoint

Permit No. DOD-1730

Company RAMCO Oil & Gas Corp.
Address P.O. Box 99, Belpre, Ohio 45714
Farm H. B. Davis Acres 111.68
Location (waters) Big Flint Run
Well No. 1 Elev. 927'
District Grant County Doddridge
The surface of tract is owned in fee by _____
George Balis
Address Big Flint, W. Va.
Mineral rights are owned by H. B. Davis Heirs
Address Salem, W. Va.
Drilling Commenced 5/18/73
Drilling Completed 6/22/73
Initial open flow show cu. ft. _____ bbls.
Final production 750MCF cu. ft. per day _____ bbls.
Well open 24 hrs. before test 520# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 12 -10" 3/4"	592'	592'	185 sks.
9 5/8		1077'	
8 5/8			
7			
5 1/2			
4 1/2		2029'	65 sks.
3			
2			
Liners Used			

Well treatment details:

Fractured: DOWELL - 720 bbls. water; 30,000# 20/40 sand; 500 gals. 15% HCL.

Attach copy of cementing record. Lawson Cementing Co., Inc.

Perforated: 1909' to 1931' - 14 holes.

Coal was encountered at 524' Feet 120" Inches
Fresh water _____ Feet Salt Water _____ Feet
Producing Sand Big Injun Depth 1905' to 1936'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Top Soil		Soft	0	2		
Gravel		Soft	2	12		
Blue Shale		Soft	12	40		
Slate		Soft	40	55		
Coal Blossom		Soft	55	60		
Slate & Shells		Soft	60	85		
Red Rock		Soft	85	120		
Slate & Shells		Soft	120	125		
Red Rock		Soft	125	135		
Slate & Shells		Soft	135	145		
Lime		Hard	145	165		
Sand		Hard	165	180		
Slate		Soft	180	250		
B. Slate		Soft	250	270		
Slate & Lime Shells		Soft	270	310		
Red Lime		Hard	310	320		
Slate & Lime Shells		Soft	320	443		
Red Lime		Hard	443	455		
Slate & Lime		Soft	455	492		
Sand		Hard	492	522		
B. Slate		Soft	522	524		

(over)

* Indicates Electric Log tops in the remarks section.

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Formation	Color	Hard or Soft	Top Feet /	Bottom Feet	Oil, Gas or Water	* Remarks
Coal		Soft	524	534		
Black Shells		Soft	534	560		
Sand		Hard	560	579		
Slate & Shells		Soft	579	606		
Sand		Hard	606	625		
Slate		Soft	625	632		
Lime		Hard	632	640		
Red Rock		Soft	640	645		
Lime		Hard	645	665		
Slate & Shells		Soft	665	718		
Red Rock & Lime		Soft	718	797		
Slate & Lime Shells		Soft	797	850		
Red Rock		Soft	850	894		
Slate & Lime Shells		Soft	894	917		
Sand		Hard	917	930		
Slate & Lime		Soft	930	990		
Sand		Hard	990	1012		
B. Slate		Soft	1012	1060		
Slate & Lime		Soft	1060	1068		
Gritty Lime		Hard	1068	1120		
B. Slate		Soft	1120	1130		
Slate & Shells		Soft	1130	1185		
Sand		Hard	1185	1260		
B. Slate & Lime Shells		Soft	1260	1345		
Slate & Shells		Soft	1345	1420		
Sand		Hard	1420	1460	water	
B. Slate & Lime Shells		Soft	1460	1484		
Sand		Hard	1484	1540		
Slate & Shells		Soft	1540	1705		
Sand		Hard	1705	1730		
B. Slate & Gritty Shells		Soft	1730	1740		
Sand		Hard	1740	1750		
Slate & Lime Shells		Soft	1750	1778		
Lime		Hard	1778	1790		
Slate & Shells		Soft	1790	1810		
Lime		Hard	1810	1868		Big Lime 1815'
Sand		Hard	1868	1980	gas show- 1917-1933	Big Injun 1920'
Slate & Shells		Soft	1980	2029	oil show- 1933-1954	

Date January 2, 19 74

APPROVED RAMCO OIL & GAS CORP., Owner

By Neal Redden, President
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAY 1 1973

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE March 30, 1973

Surface Owner H. B. Davis Heirs

Company RAMCO Oil & Gas Corp.

Address Salem, W. Va.

Address P. O. Box 99, Belpre, Ohio 45714

Mineral Owner H. B. Davis Heirs

Farm H. B. Davis Acres 111.68

Address Salem, W. Va.

Location (waters) Big Flint Run

Coal Owner H. B. Davis Heirs

Well No. 1 Elevation 927'

Address Salem, W. Va.

District Grant County Doddridge

Coal Operator None - no coal is being

Quadrangle Centerpoint

Address mined in the area.

INSPECTOR TO BE NOTIFIED
Mr. Wm. Blessier
Belpre, W. Va. 45714
26566 363-9105

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for Drilling. This permit shall expire if operations have not commenced by 9-1-73.

Robert L. Todd
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated March 26, 1973 by James F. Scott made to RAMCO Oil & Gas Corp. and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____

NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, RAMCO OIL & GAS CORP.
(Sign Name) by Randall J. Kotton, Dist. Sect.
Well Operator

Address
of
Well Operator

P. O. Box 99
Street
Belpre
City or Town
Ohio 45714
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BOND DRILL

Dodd-1730 PERMIT NUMBER

47-017-1730

Survey

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO DRILL DEEPEN FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:

NAME Hank Snow NAME Brad Crouse

ADDRESS Salem, W. Va. ADDRESS Grantsville, W. Va.

TELEPHONE (304) 782-1356 TELEPHONE (304) 354-7657

ESTIMATED DEPTH OF COMPLETED WELL: 2060' ROTARY CABLE TOOLS

PROPOSED GEOLOGICAL FORMATION: Big Injun

TYPE OF WELL: OIL GAS COMB. STORAGE DISPOSAL

RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	630	630	
7			
5 1/2			
4 1/2		2060	70 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS FEET SALT WATER FEET

APPROXIMATE COAL DEPTHS 600' , .

IS COAL BEING MINED IN THE AREA? no BY WHOM?

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title